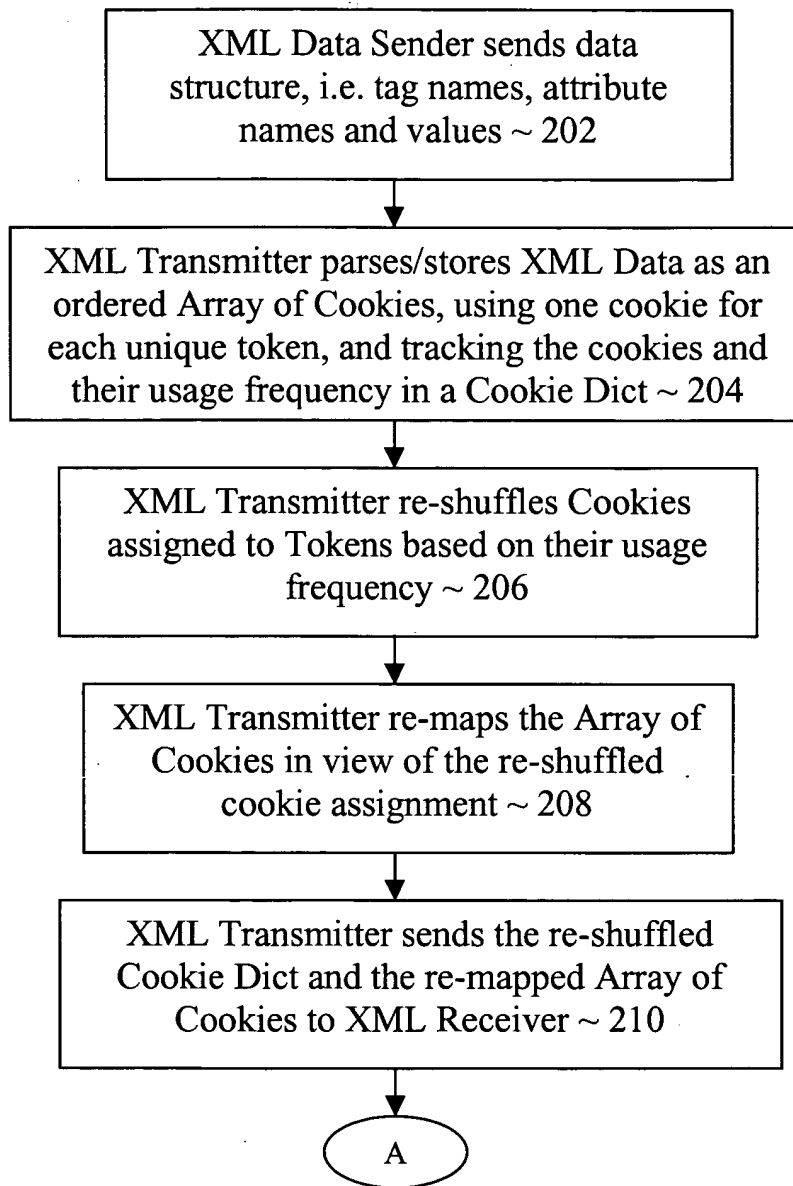


**Figure 1**



**Figure 2a**

A



XML Receiver receives and saves the re-shuffled Cookie Dict and the re-mapped Array of Cookies ~ 212



XML Receiver sends XML Data, i.e. tag names, attribute names & values, to Data Recipient ~ 214

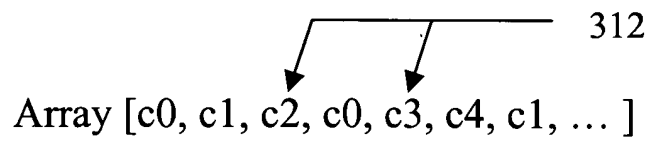
**Figure 2b**

300

| Cookies<br>~ 302 | Tokens<br>~ 304 | Usage Frequency<br>~ 306 |
|------------------|-----------------|--------------------------|
|                  |                 |                          |
|                  |                 |                          |
|                  |                 |                          |
|                  |                 |                          |
|                  |                 |                          |
|                  |                 |                          |
|                  |                 |                          |
|                  |                 |                          |

**Figure 3a**

310



**Figure 3b**

400

```
<Employees>
  <Employee ID="1" Title="Software Engineer">Alex
    Rodriguez</Employee>
  <Employee ID="2" Title="Software Engineer">Jay
    Buner</Employee>
  <Employee ID="3" Title="Software Engineer">Mike
    Cameron</Employee>
</Employees>
```

**Figure 4a**

402

```
"<", "Employees", ">", "<", "Employee" "ID" "="
  "1"
```

**Figure 4b**

404

| <u>Cookie</u> | <u>Tokens</u>       | <u>Frequency</u> |
|---------------|---------------------|------------------|
| 0             | "<"                 | (4)              |
| 1             | "Employees"         | (1)              |
| 2             | ">"                 | (8)              |
| 3             | "Employee"          | (3)              |
| 4             | "</"                | (4)              |
| 5             | "ID"                | (3)              |
| 6             | "="                 | (6)              |
| 7             | "1"                 | (1)              |
| 8             | "Title"             | (3)              |
| 9             | "Software Engineer" | (3)              |
| ...           |                     |                  |

**Figure 4c**

406

Array[] = { 0, 1, 2, 0, 3, 5, 6, ... }

**Figure 4d**

408

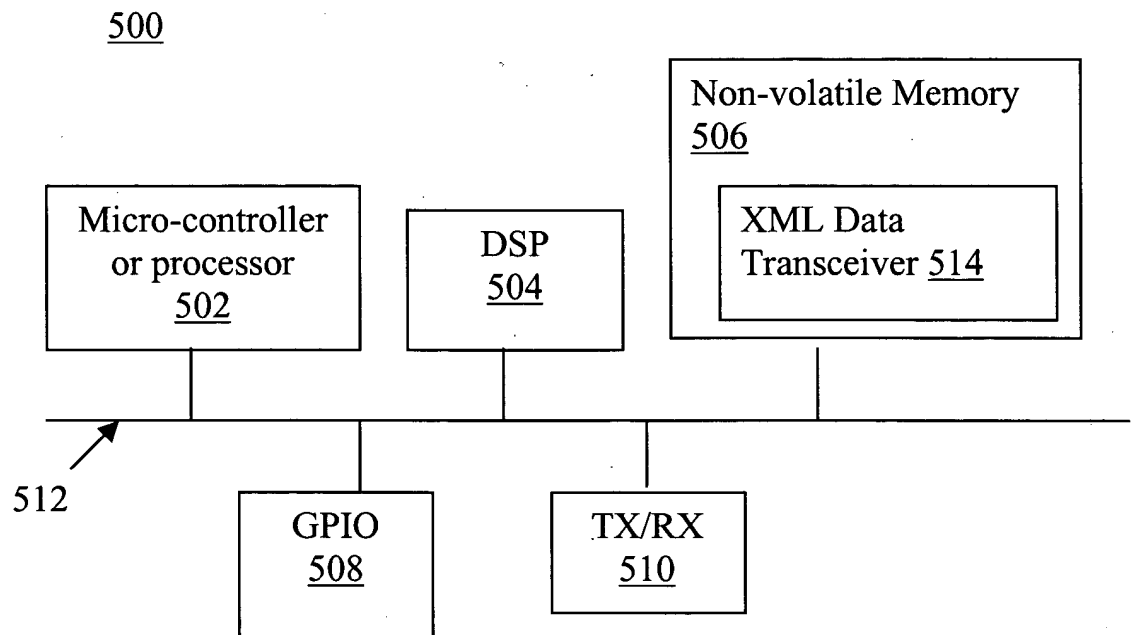
| <u>Cookie</u> | <u>Tokens</u>       | <u>Frequency</u> |
|---------------|---------------------|------------------|
| 1             | ">"                 | (8)              |
| 2             | "="                 | (6)              |
| 3             | "Employee"          | (6)              |
| 4             | "<"                 | (4)              |
| 5             | "</"                | (4)              |
| 6             | "ID"                | (3)              |
| 7             | "Software Engineer" | (3)              |
| 8             | "Title"             | (3)              |
| 9             | "Employees"         | (2)              |
| 10            | "1"                 | (1)              |
| ...           |                     |                  |

**Figure 4e**

410

Array[] = { 4, 8, 1, 4, 3, 6, 10, 8, 7, ... }

**Figure 4f**



**Figure 5**